REPORT

of the Organizing Committee of the 6-th International Conference "Mathematical Methods in Electromagnetic Theory"

The 6-th International Conference on Mathematical Methods in Electromagnetic Theory (MMET'96) is held on September 10-13 in the Lviv (Ukraine) "Karpathy" hotel. The primary aim of this conference was to document new developments for electromagnetic investigation and to intensify an international cooperation in this important and growing field of physical research. The other purpose of MMET'96 conference holding was to continue regular forum of interaction in the field of electromagnetic theory between the scientists from post Soviet independent countries and the Western scientific community.

This time the conference was organized by Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine, Ukrainian URSI Commission B and Ukrainian IEEE ED/MTT/AP Chapters. It was realized in cooperation with the State University "Lviv Polytechnic", the following Institutes of the National Academy of Sciences of Ukraine: Radiophysics and Electronics, Radioastronomy, Applied Problems of Mechanics and Mathematics as well as with URSI Commission B and the following IEEE organizations: Antennas and Propagation Society, Electron Devices Society, Microwave Theory and Techniques Society.

The 130 papers of more than 212 authors from 16 countries have been accepted to the Program of MMET'96 and have been collected in the Conference Proceedings. They cover all the traditional topics of the URSI Commission B activities and was presented in 8 MMET'96 Conference Sessions. Some statistics of the Conference Proceedings is contained in the Appendixes 1,2.

Almost 100 participants from 9 countries came to Lviv and took part in the MMET'96 Conference. The Appendix 3 contains a list of the MMET'96 Conference participants. There were 4 plenary sessions and 13 sessions of Sections at the Conference. There were 8 invited speakers and a total number of presentations was 78. The presentations were distributed among the sessions as follows:

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Number of papers from countries:

sorted by countries:	sorted by number of papers:		
Belarus	3	Ukraine, Kharkiv	36
Brazil	1	Ukraine, Lviv	28
Finland	1	Russia	27
Germany	1	Ukraine, Kyiv	8
Greece	1	Japan	6
Italy	1	Turkey	4
Japan	6	Ukraine, Ternopil'	4
Poland	2	Ukraine, Dnipropetrovsk	4
Rep. of Georgia	2	Belarus	3
Russia	27	Poland	2
Switzerland	1	Rep. of Georgia	2
Turkey	4	Ukraine, Zaporizhye	2
UK	1	Brazil	1
Ukraine, Dnipropetrovsk	4	Finland	1
Ukraine, Kharkiv	36	Germany	1
Ukraine, Kyiv	8	Greece	1
Ukraine, Lviv	28	Italy	1
Ukraine, Odessa	1	Switzerland	1
Ukraine, Ternopil'	4	UK	1
Ukraine, Zaporizhye	2	USA	1
USA	1	Ukraine, Odessa	1
Yugoslaviya	1	Yugoslaviya	1

total: 130 papers*

^{*}including three international papers

Number of authors from countries:

sorted by countries:	sorted by number of authors:	sorted by number of authors:		
Belarus	5	Ukraine, Kharkiv 66	;	
Brazil	2	Russia 46	;	
Finland	1	Ukraine, Lviv 38	3	
Germany	1	Ukraine, Kyiv 14	1	
Greece	1	Japan 6		
	1	Ukraine, Dnipropetrovsk 6		
Italy	6	Belarus 5		
Japan Poland	4	Rep. of Georgia 5		
Rep. of Georgia	5	Turkey 5		
Rep. of Georgia	46	Poland 4		
Switzerland	1	UK 3	,	
Turkey	5	Brazil 2		
UK	3	Ukraine, Ternopil' 2) -	
Ukraine, Dnipropetrovsk	6	Ukraine, Zaporizhye 2	2	
Ukraine, Kharkiv	66	Ukraine, Odessa	1	
Ukraine, Kyiv	14	Finland	1	
Ukraine, Lviv	38	Germany	1	
Ukraine, Odessa	1	Greece	1	
Ukraine, Ternopil'	2	Italy	1	
Ukraine, Zaporizhye	2	USA	1	
USA	1	Switzerland	1	
Yugoslaviya	1	Yugoslaviya	1	

total: 212 authors

-Antenna Theory	6;
-Computational Techniques	13;
-Electromagnetic Theory	10;
-Gratings and Frequency Selected Surfaces	5;
-Inverse Problems	9;
-Scattering and Diffraction	14;
-Time Domain Methods	8;
-Waveguides and Complex Media	5.

The final MMET'96 Program is shown in Appendix 4. According to the preliminary announcement the Technical Program Committee awarded the Prizes to the young authors for the best papers presented at the Conference. 22 young scientists of 4 countries took part in the competition (see Appendix 5). The International Jury for estimation of the presentations was approved during the Opening Ceremony of the MMET'96 Conference (see Appendix 6). The 6 winners of competition were awarded (see Appendix 7). According to decision of the Technical Program Committee the 5 young scientists from the ex-USSR countries were encouraged as well.

The decision of the 6-th International Conference on Mathematical Methods in Electromagnetic Theory was accepted during the MMET'96 Closing Ceremony. The main its items are as follows:

- MMET'96 Conference is considered as a successful International event in the field of Radio Science and Radio Engineering;
- the participants point out a qualitative work of the MMET'96 Organizing Committee during the preparation of the Conference as well as during its holding;
- the next, 7-th MMET Conference, will be hold in Kharkiv (Ukraine) in the next week after 1998 URSI Symposium in Salonika (Greece);
- the members of the MMET'96 Technical Program Committee were asked to determine the Chairman of the MMET'98 Conference, to coordinate the date of its holding with URSI and IEEE managers and to extend this information among the electromagnetic community.

As MMET'96 Chairman I would like to conclude that this Conference fulfills its tasks successfully. Most of the sessions was headed by distinguished experts in electromagnetic theory. The invited lecturers report their most recent works. One workshop on Antenna Theory was scheduled during the Conference

period for those who wish to learn deeply some latest theoretical results in this field. The Conference have convened scientists from different countries, have presented the latest state-of the-art of electromagnetic theory and have provided a forum for an international exchange of knowledge and experience. The Conference have documented new developments for electromagnetic investigation and have intensified an international cooperation in this important and growing field of physical research. In addition the MMET'96 Conference have given a good possibility to interact in field of electromagnetic theory between the ex-USSR and the Western scientific community. The four Conference days gave the opportunity to discuss the mathematical problems and methods as well as their applications to a practical realization and to design of novel electromagnetic structures. The participants obtained a good possibility to inform one another about research policies in different countries. I hope that this Conference helps to establish new joint research projects as well.

MMET'96 Chairman

Zinoviy Nazarchuk

Lviv, 18 September 1996

List of participants of the MMET'96 Conference

- 1. Andriychuk M.
- 2. Anokhin V.J.
- 3. Anukhin I.
- 4. Apelt'cin V. F.
- 5. Bachevsky R.
- 6. Blyznyuk N.
- 7. Bobkov V. B.
- 8. Bodnarchuk I.
- Bohonko L.
- 10. Boriskina S. V.
- 11. Bosyk L.
- 12. Chorna L.
- 13. Chumacenko V. P.
- 14. Drabich P. P.
- 15. Dragan Ya.
- 16. Drogobytsky R.
- 17. Dubrovka R.
- 18. Dumin O. M.
- 19. Dzhala R.
- 20. Emets V.
- 21. Fedoriv R.
- 22. Ganenko E.
- 23. Gardiol F.
- 24. Gavrilyako O. V.
- 25. Ghose R. N.
- 26. Girka V. O.
- 27. Goblyk V.
- 28. Hinata T.
- 29. Hutnyk V.
- 30. lavorskyj I.
- 31. Ivanska N.

- 32. Kachan M. V.
- Karacuha E.
- 34. Karkashadze D.D.
- 35. Klimash M. N.
- 36. Kobayashi K.
- 37. Kolodii B. I.
- 38. Koshikawa S.
- 39. Koshovy V.
- 40. Krapivnoy A. V.
- 41. Kuryliak D.
- 42. Kyslak I.
- 43. Ljaschuk O.
- 44. Lozynsky A. B.
- 45. Lukomsky V. P.
- 46. Maly S. V.
- 47. Matsushima A.
- 48. Mlynko B.
- 49. Mos'pan L.
- 50. Mykhajlyshyn V.
- 51. Nazarchuk Z.
- Nerukh A. G.
- 53. Nironovych I.
- 54. Nosich A I.
- 55. Okhmatovsky V.
- 56. Opyr N.
- 57. Osuhivs'ka H.
- 58. Ovsyannikov O.
- 59. Panasyuk V.
- 60. Pasnak L.
- 61. Pavlenko I. V.
- 62. Pavlykevych M.

- 63. Pimenov S. F.
- 64. Popenko N.
- 65. Popov B.
- 66. Prijmenko S.
- 67. Prosvirnin S.
- 68. Przezdziecki A.
- 69. Romancev Y. V.
- 70. Romanishin I. M.
- 71. Rozhkov L.
- 72. Rusyn B.
- 73. Rybachuk V.
- 74. Samoilenko M. N.
- 75. Samokhin A.
- 76. Sapmaz S.
- 77. Savenko P.
- 78. Senyk T.
- 79. Shimoda M.
- 80. Sikora L. S.
- 81. Sujecki S.
- 82. Tanaka K.
- 83. Tretyakov O.
- 84. Tsyban' V.
- 85. Tyshnenko A. G.
- 86. Uchanin V.
- 87. Vasil'ev E.
- 88. Veliev E.
- 89. Verbitskii I. L.
- 90. Verkhivska G.
- 91. Vinogradov S.
- 92. Voitovich N.
- 93. Vorobel R.
- 94. Vytovtov K. A.
- 95. Yakovenko V.

- 96. Yashchishyn Y.
- 97. Zabolotna O.
- 98. Zaginaylov G. I.
- 99. Zybov V.